

## ● Personal Information

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### LinkedIn:

[Md Mosaddek Hameem](#)

## ● Language Proficiency

### English

*Full Professional  
Proficiency*

### Bangla

*Native Proficiency*

## ● Interests

Sustainability,  
Engineering Materials,  
Machine Learning,  
Artificial Intelligence,  
Life Cycle Assessment

## ● Personal Skills

Communication  
Problem Solving  
Collaborative mentality  
Timeliness  
Critical thinking

## ● Software skills

### Word

*Expert*

### PowerPoint

*Expert*

### Excel

*Proficient*

### Illustrator

*Proficient*

### Photoshop

*Proficient*

## Curriculum Vitae of

# Md Mosaddek Hameem

As a lecturer in civil engineering, I am driven by a deep love for teaching and a immense commitment to fostering creative problem-solving skills among students. With an insatiable hunger for learning, I am eager to secure a stimulating role within a prestigious academic setting.

## ● Work Experiences

### 1. University of Creative Technology, Chittagong (UCTC)

Lecturer in Civil Engineering (July '23 - Present)

Courses Instructed: CEN 405 (Mechanics of Materials), CEN 701 (Project Planning & Management), CEN 506 (Structural Analysis & Design Sessional I), ENG 301 (Technical Writing)

## ● Educational Qualifications

### 1. Chittagong University of Engineering and Technology (January '18 - July '23)

Bachelor of Science, Department of Civil Engineering

- Cumulative GPA: 3.35 (Out of 4.00)
- Class Position: 11<sup>th</sup> (Out of 131)
- Academic Scholarship: 1<sup>st</sup> - 8<sup>th</sup> semester

### 2. Notre Dame College (July '15 - June '17)

Higher Secondary School Certificate, Science

- GPA: 5.00 (Out of 5.00)

## ● Academic Experiences

### Publications

Service Life and Environmental Performance Simulation of Concrete Structure using SCMs as Partial Replacement of OPC;

AIP Conference Proceedings; Published: 28th April 2023; Link: [doi.org/10.1063/5.0130166](https://doi.org/10.1063/5.0130166)

I was the one of the Authors of the paper published in the ICCESD 2022 organized by the Department of Civil Engineering, KUET. The paper won the Best Paper award competing with other 73 papers in the Structural Engineering Category.

Evaluating Performance of Steel Slag in Eco-friendly Building Block

AIP Conference Proceedings (on process)

The machine-made pressurized hollow blocks (CSS) were made of cement, sand, and IF slag. The blocks showed a maximum strength of 10 MPa, surpassing clay bricks in all seven environmental impact categories by 2-3 times and being 50% cost-effective.

### Course Projects

#### 1. Industrial Attachment (CE-402) in the Public Works Department (PWD)

Completed a three week intensive training session under the 5 divisions of Chattogram PWD where we attended Nine different construction and operation sites to learn about the RCC and Electro Mechanical operations of those sites.

## ● Technical Skills

### Design, Simulation and CAD Software Skills

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Life365

*Expert*

AutoCAD

*Proficient*

ETABS

*Competent*

Revit

*Competent*

### Programming Language Proficiency

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C++

*Proficient*

HTML / CSS

*Competent*

### Other Skills

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WordPress

*Competent*

## ● Achievements:

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1. **Champion in ACI Eco Concrete Competition 2021 (October 2021)**  
Achieved First place in one of the prestigious concrete competition organized by the American Concrete Institute (ACI) at the 2021 Fall Convention. Our concrete mixture had the longest service life and the lowest environmental impact.
2. **2nd Runner up in ACI Concrete Solutions Competition 2021 (March 2021)**  
My team and I represented our University at the ACI's Spring Convention, demonstrating the positive use of concrete. We were the first public university team from Bangladesh to win an ACI student competition in the global stage, which was covered by national news outlets like Prothom Alo, Samakal, and Channel 24.
3. **Top 30 in National STEM Competition 2021 (August 2021)**  
One of the teams who were granted a research grant to implement our idea using plastic waste to make sustainable construction materials.

## ● Volunteering Experiences

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1. **ACI Student Chapter-CUET President (01/22-03/23)**  
Orchestrated the inaugural National Concrete Fest in first time the chapter's history, which saw participation from 15 esteemed universities and over 200 participants. Together with my outstanding team, we organized four competitions and various technical tours and sessions with a resounding success for the 250 chapter members.  
**Creative Secretary (01/21-01/22)**  
Designed around 100 posters and several videos as part of social media promotions. Managed social media along with the publication secretary and implemented several interactive campaigns to increase participation and enthusiasm.
2. **Green For Peace CUET Vice President (07/22-06/23)**  
Designed and implemented multiple initiatives aimed at promoting environmental conservation, such as "One Tree Planted for Each Registration" and "Eliminating Single-Use Plastics on Campus." Additionally, overseeing the online operations, devising social media campaigns, and spreading urgent appeals for blood donations.

## ● Certifications

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1. **EU Countering Violent Extremism Training Program**  
Attended the training program with an invitation from UNDP Bangladesh.
2. **AI and Machine Learning with Python**  
A 15 day training program organized by Sheikh Kamal IT Business Incubator in CUET

## ● References

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1. **Dr. Sudip Kumar Pal**  
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Chittagong University of Engineering and Technology (CUET)  
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2. **Dr. G. M. Sadiqul Islam**  
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